

A method for detecting and reacting to changes in depth of one or more queues which store messages processed by tasks executing in a computer system, comprising:

setting a high threshold of a depth of the queue to a first value;

detecting when the depth of the queue equals or exceeds the high threshold; and raising the high threshold by a predetermined increment each time the depth of the queue equals or exceeds the high threshold.

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2. A method according to claim 1, further comprising:

starting at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold.

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A method according to claim 1, further comprising:

starting at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold if the number of tasks currently processing the messages in the queue is less than a predetermined amount.

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A method according to claim 2, further comprising the steps of setting a low threshold of the depth of the queue to a value lower than the value of the high threshold; and

reducing the value of the high threshold if the depth of the queue is equal to or less than the value of the low threshold.

A method for detecting and reacting to changes in depth of one or more queues which store messages processed by tasks executing in a computer system, comprising:

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starting at least one task for processing one or more messages stored in a queue;



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setting a high threshold of a depth of the queue to a first value; and starting at least one additional task for processing the messages in the queue if the depth of the queue equals or exceeds the high threshold set to the first value.

- 6. A method according to claim 5, further comprising:
 setting the high threshold to a second value greater than the first value if the depth of the queue equals or exceeds the high threshold set to the first value.
- 7. A method according to claim 6, further comprising:

 starting at least one additional task for processing the messages in the queue if the depth of the queue equals or exceeds the high threshold set to the second value.
 - 8. A method according to claim 6, further comprising: starting at least one additional task for processing the messages in the queue if the depth of the queue equals or exceeds the high threshold set to the second value the number of tasks currently processing the messages in the queue is less than a predetermined amount.
 - 9. A method according to claim 5, further comprising:
 setting a low threshold of the depth of the queue to a second value lower than the first value; and

setting the high threshold to a third value lower than the first value if the depth of the queue is equal to or less than the low threshold set to the second value.

25 M. A computer system for detecting and reacting to changes in depth of one or more queues which store messages processed by tasks executing in the computer system, comprising:

means for setting a high threshold of a depth of the queue to a first value;
means for detecting when the depth of the queue equals or exceeds the high threshold; and

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means for raising the high threshold by a predetermined increment each time the depth of the queue equals or exceeds the high threshold.

15 μ. A computer system according to claim 10, further comprising:

means for starting at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold.

12. A computer system according to claim 10, further comprising the step of: means for starting at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold if the number of tasks currently processing the messages in the queue is less than a predetermined amount.

13. A computer system according to claim 10, further comprising: means for setting a low threshold of the depth of the queue to a value lower than the value of the high threshold; and

means for reducing the value of the high threshold if the depth of the queue is equal to or less than the value of the low threshold.

A computer program stored on a computer readable medium for detecting and reacting to changes in depth of one or more queues which store messages processed by tasks executing in a computer system, the computer program configured to:

set a high threshold of a depth of the queue to a first value;

detect when the depth of the queue equals or exceeds the high threshold; and raise the high threshold by a predetermined increment each time the depth of the queue equals or exceeds the high threshold.

A computer program according to claim 14, further configured to:
start at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold.



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6. A computer program according to claim 14, further configured to:

start at least one task for processing one or more messages stored in the queue each time the depth of the queue equals or exceeds the high threshold if the number of tasks currently processing the messages in the queue is less than a predetermined amount.

17.\ A computer program according to claim 14, further configured to:

set a low threshold of the depth of the queue to a value lower than the value of the high threshold; and

reduce the value of the high threshold if the depth of the queue is equal to or less than the value of the low threshold.

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